Performance Data Sheet

RKA5515CXD

General Information

Model	RKA5515CXD	**Refrigerant**	R-407C
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4480	3450					
	Watts	668	705					
	Amps	3.24	3.38					
	Lb/h	53.2	51.8					
-10	Btu/h	5270	4320	3560				
	Watts	696	739	784				
	Amps	3.34	3.49	3.70				
	Lb/h	61.5	60.5	58.7				
-5	Btu/h	6120	5230	4510	3940			
	Watts	720	769	821	875			
	Amps	3.44	3.61	3.83	4.11			
	Lb/h	70.3	69.6	68.2	66.0			
0	Btu/h	7020	6180	5500	4950	4460		
	Watts	742	796	854	915	980		
	Amps	3.52	3.71	3.96	4.25	4.59		
	Lb/h	79.8	79.4	78.2	76.3	73.8		
5	Btu/h	7980	7170	6520	5980	5500		
	Watts	760	820	884	952	1020		
	Amps	3.59	3.80	4.07	4.39	4.75		
	Lb/h	90.3	90.0	89.1	87.4	85.1		
10	Btu/h	9000	8210	7570	7030	6550	6070	5530
	Watts	774	840	911	986	1060	1150	1230
	Amps	3.65	3.88	4.17	4.52	4.90	5.31	5.74
	Lb/h	102	102	101	99.3	97.2	94.4	91.1
15	Btu/h	10100	9290	8660	8110	7610	7100	6530
	Watts	785	857	934	1020	1100	1190	1290
	Amps	3.70	3.95	4.26	4.63	5.04	5.48	5.93
	Lb/h	115	114	114	112	110	108	104
20	Btu/h	11200	10400	9780	9220	8680	8130	7510
	Watts	791	869	953	1040	1130	1230	1330
	Amps	3.73	4.00	4.34	4.73	5.17	5.63	6.12
	Lb/h	129	129	128	126	124	122	119

25	Btu/h	12400	11600	11000	10400	9780	9170	8490
	Watts	793	878	968	1060	1160	1270	1380
	Amps	3.75	4.04	4.40	4.82	5.28	5.78	6.29
	Lb/h	145	144	143	142	140	137	134
30	Btu/h	13700	12900	12200	11500	10900	10200	9470
	Watts	791	882	978	1080	1190	1300	1420
	Amps	3.74	4.06	4.45	4.89	5.38	5.91	6.45
	Lb/h	162	162	161	159	157	154	151
35	Btu/h	15100	14200	13400	12700	12000	11300	10400
	Watts	784	881	984	1090	1210	1330	1460
	Amps	3.73	4.07	4.48	4.95	5.47	6.02	6.60
	Lb/h	182	181	180	178	175	173	169
40	Btu/h	16500	15600	14800	14000	13200	12400	11400
	Watts	773	876	986	1100	1220	1350	1490
	Amps	3.69	4.05	4.49	4.99	5.54	6.12	6.72
	Lb/h	203	202	200	198	196	193	189
45	Btu/h	18000	17000	16100	15300	14400	13500	12400
	Watts	756	866	982	1110	1230	1370	1510
	Amps	3.63	4.02	4.48	5.01	5.59	6.20	6.84
	Lb/h	227	225	223	221	218	215	211
50	Btu/h	19600	18500	17500	16600	15600	14600	13400
	Watts	735	851	974	1100	1240	1390	1540
	Amps	3.55	3.96	4.46	5.01	5.62	6.26	6.93
	Lb/h	253	251	249	246	242	239	234
55	Btu/h	21200	20100	19000	18000	16900	15700	14400
	Watts	708	830	960	1100	1240	1390	1550
	Amps	3.44	3.89	4.41	4.99	5.63	6.30	7.01
	Lb/h	282	279	276	273	269	265	260

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.622472E+04	4.409316E+02	5.565411E+00	5.387348E+01
C2	5.265653E+01	-2.744703E+00	-5.924276E-03	1.865491E+00
C3	-4.392211E+02	2.134168E+00	-7.910517E-02	6.739398E-01
C4	3.051013E+00	-7.506870E-02	-3.220182E-04	3.034775E-02
C5	2.437306E+00	5.245088E-02	1.575128E-04	-7.014152E-04
C6	3.172673E+00	2.174208E-02	8.241193E-04	-4.649668E-03
C7	3.453194E-03	-2.534712E-04	-1.684188E-06	2.244992E-04
C8	-2.406766E-02	7.812346E-05	1.332633E-06	-1.510256E-04
C9	-9.638544E-03	3.881184E-04	1.381942E-06	2.902954E-05
C10	-8.530078E-03	-1.751419E-05	-1.939776E-06	3.456840E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature